

Atty. Docket No.
A33474-PCT-USA-A
068528.0103

Serial No.
10/086,913

INFORMATION DISCLOSURE STATEMENT

BY APPLICANT
(Use Several Sheets if necessary)

DEC 22 2003

Applicant
Higuchi et al.

Filing Date
March 1, 2002

Group 1652

U.S. PATENT DOCUMENTS

*Ex am.	Document No.	Date	Name	Class	Subclass	Filing Date if Appropriate
Init.						

FOREIGN PATENT DOCUMENT

Document No.	Date	Country	Class	SubClass	Translation Yes No

OTHER DOCUMENTS (including Author, Title Date, Pertinent Pages, Etc.)

re.re.	1	Umezawa et al., "Enzyme-linked immunosorbent assay with Trypanosoma cruzi excreted-secreted antigens (TESA-ELISA) for serodiagnosis of acute and chronic Chagas' disease," <u>Diagn. Microbiol. Infect. Dis.</u> 39:169-176, 2001 (USA).
re.re.	2	Higuchi et al., "Great amount of <i>C. pneumoniae</i> in ruptured plaque vessel segments at autopsy. A comparative study of stable plaques," <u>Ara. Bras. Cardiol.</u> 74:149-151(2000).
re.re.	3	Higuchi et al., "Detection of <i>Mycoplasma pneumoniae</i> and <i>Chlamydia pneumoniae</i> in ruptured atherosclerotic plaques," <u>Braz. J. Med. Biol. Res.</u> 33:1023-1026 (2000).
re.re.	4	Horne et al., "IgA sero-positivity to <i>Mycoplasma pneumoniae</i> predicts the diagnosis of coronary artery disease," <u>J. Am. Coll. Cardiol.</u> 35:321 (abstract) (2000).

NY02:450221.1

1

Examiner *re. p. l. anshi*

Date Considered

1/11/05

* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

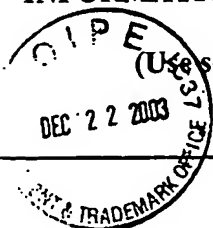
INFORMATION DISCLOSURE STATEMENT
BY APPLICANT

(Use several sheets if necessary)

Applicant
Higuchi et al.

Filing Date
March 1, 2002

Group 1652



re.re.	5	Laroy et al., "Cloning of <i>Trypanosoma cruzi</i> trans-Sialidase and Expression in <i>Pichia pastoris</i> ," <u>Protein Expr. Purif.</u> 20:389-393 (2000).
—	6	Maraha et al., "Is <i>Mycoplasma pneumoniae</i> associated with vascular disease," <u>J. Clin. Microbiol.</u> 38:935-936 (February 2000).
—	7	Sambiase et al., "CMV and transplant-related coronary atherosclerosis: an immunohistochemical, <i>in situ</i> hybridization and polymerase chain reaction <i>in situ</i> study," <u>Modern Pathology</u> 13:173-179 (2000).
re.re.	8	Buscaglia et al., "Tandem amino acid repeats from <i>Trypanosoma cruzi</i> shed antigens increase the half-life of proteins in blood", <u>Blood</u> , 93:2025-2032, (1999).
re.re.	9	Cole, "Mycoplasma-induced arthritis in animals: relevance to understanding the etiologies of the human rheumatic diseases," <u>Rev. Rhum. Engl. Ed.</u> 66 (1 Suppl):45S-49S (1999).
re.re.	10	Berbec et al., "Total serum sialic acid concentration as a supporting marker of malignancy in ovarian neoplasia," <u>Eur J Gynaecol Oncol</u> 20(5-6): 389-392 (1999).
re.re.	11	Feng Shaw-Huey, et al., "Mycoplasma infections prevent apoptosis and induce malignant transformation o interleuckin-3-dependent 32D hematopoietic cells," <u>Mol Cel Biol</u> 19(12): 7995-8002 (1999).
re.re.	12	Nicolson et al., "Mycoplasmal infections in chronic illnesses," (http://www.gulfwarvets.com/article24.htm) also published in <u>Medical Sentinel</u> , 4 :172-175,191 (1999).
re.re.	13	Ros-Bullon , et al., "Serum sialic acid in malignant melanoma patients: na ROC curve analysis," <u>Anticancer Res</u> 19(4C): 3619-3622 (1999).
—	14	Buscaglia et al., "The repetitive domain of <i>Trypanosome cruzi</i> trans-sialidase enhances the immune response against the catalytic domain," <u>J. Infect. Dis.</u> 177(2):431-436 (1998).
re.re.	15	Fu et al., "Middle cerebral artery occlusion after recent <i>Mycoplasma pneumoniae</i> infection," <u>J. Neurol. Sci.</u> 157:113-115 (1998).

NY02:450221.1

2

Examiner

reilanshi

Date Considered

1/11/05

Atty. Docket No.
A33474-PCT-USA-A
068528.0103

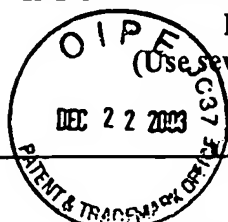
Serial No.
10/086,913

**INFORMATION DISCLOSURE STATEMENT
BY APPLICANT**
(Use several sheets if necessary)

Applicant
Higuchi et al.

Filing Date
March 1, 2002

Group 1652



r.e.r.	16	Neyrolles et al., "Identification of two glycosylated components of <i>Mycoplasma penetrans</i> : a surface-exposed capsular polysaccharide and a glycolipid fraction," <u>Microbiology</u> , 144:1247-1255 (1998).
r.e.r.	17	Razin et al., "Molecular biology and pathogenicity of mycoplasmas," <u>Microbiol. Mol. Biol. Rev.</u> 62(4):1094-1156 (1998).
r.e.r.	18	Taylor-Robinson and Thomas, " <i>Chlamydia pneumoniae</i> in arteries: the facts, their interpretation, and future studies," <u>J. Clin. Pathol.</u> 51:793-797 (1998).
r.e.r.	19	Agusti et al., "The trans-sialidase of <i>Trypanosome cruzi</i> is anchored by two different lipids," <u>Glycobiology</u> 7(6):731-735 (1997).
r.e.r.	20	Cole, "Mycoplasma interactions with the immune system: implications for disease pathology," 1997, http://www.compkarori.com/arthritis/pil6002.htm).
r.e.r.	21	Danesch et al., "Chronic infection Farraj et al., "Mycoplasma-associated pericarditis, case report," <u>Mayo Clin. Proc.</u> 72:33-36 (1997).
r.e.r.	22	Farraj et al., "Mycoplasma-associated pericarditis, case report," <u>Mayo Clin. Proc.</u> 72:33-36 (1997).
r.e.r.	23	Gurfinkel et al., "IgG antibodies to chlamydial and mycoplasma infection plus C-reactive protein related to poor outcome in unstable angina," <u>Arch. Inst. Cardiol. Mex.</u> 67:462-468 (1997).
r.e.r.	24	Ribeirão et al., "Temperature differences for trans-glycosylation and hydrolysis reaction reveal an acceptor binding site in the catalytic mechanism of <i>Trypanosoma cruzi</i> trans-sialidase," <u>Glycobiology</u> 7:1237-1246 (1997). tions and coronary artery disease: is there a link?," <u>Lancet</u> 350:430-436 (1997).
r.e.r.	25	Perez et al., "Leukocytoclastic vasculitis and polyarthritis associated with <i>Mycoplasma pneumoniae</i> infection," <u>Clin. Infect. Dis.</u> 25:154-155 (1997).
r.e.r.	26	<i>Trypanosoma cruzi</i> trans-sialidase, Accession No. BAA09334, GI:840708,1060 aa, Smith et al. (1996).

NY02:450221.1

3

Examiner

[Signature]

Date Considered

1/11/05

* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Atty. Docket No.
A33474-PCT-USA-A
068528.0103

Serial No.
10/086,913

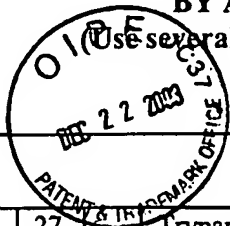
INFORMATION DISCLOSURE STATEMENT
BY APPLICANT

(Use several sheets if necessary)

Applicant
Higuchi et al.

Filing Date
March 1, 2002

Group 1652



r.e.	27	Trypanosoma cruzi trans-sialidase, Accession No. BAA09333, GI:84706, 964 aa, Smith et al. (1996).
r.e.	28	Buschiazzi et al., "Medium scale production and purification to homogeneity of a recombinant trans-sialidase from Trypanosoma cruzi," <u>Cell Mol. Biol.</u> 42:703-710 (1996).
r.e.	29	Cremona et al., "Effect of primary structure modifications in Trypanosoma cruzi neuraminidase trans-sialidase activities," <u>Cell. Mol. Biol.</u> 42:697-702 (1996).
—	30	Ong et al., "Detection and widespread distribution of Chlamydia pneumoniae in the vascular system and its possible implications," <u>J. Clin. Pathol.</u> 49:102-106 (1996).
r.e.	31	Umezawa et al., "Immunoblot assay using excreted/secreted antigens of Trypanosoma cruzi in serodiagnosis of congenital, acute and chronic Chagas' disease," <u>J. Clin. Microbiol.</u> 34: 2143-2147, (1996)
r.e.	32	Trypanosoma cruzi TCTS-154 gene for trans-sialidase, Accession No D50684, GI:840705, 2895 bp, Uemura et al. (1995).
r.e.	33	Trypanosoma cruzi TCTS-121 gene for trans-sialidase, Accession No D50685, GI:840707, 3183 bp, Uemura et al. (1995).
r.e.	34	Cremona et al., "A single tyrosine differentiates active and inactive Trypanosome cruzi trans-sialidase," <u>Gene</u> 160:123-128 (1995).
r.e.	35	Blanchard et al., "AIDS-associated mycoplasmas," <u>Annu. Rev. Microbiol.</u> 48:687-712 (1994).
r.e.	36	Campetella et al., "A recombinant Trypanosoma cruzi trans-sialidase lacking the amino acid repeats retains the enzymatic activity," <u>Mol. Biochem. Parasitol.</u> 64:337-340 (1994).
r.e.	37	Schenkman et al., "Structural and functional properties of Trypanosome trans-sialidase," <u>Annu. Rev. Microbiol.</u> 48:499-523 (1994).

NY02:450221.1

4

Examiner

re. r.e. r.e.

Date Considered

1/11/05

* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE STATEMENT

BY APPLICANT
(Use several sheets if necessary)

Applicant
Higuchi et al.

Filing Date
March 1, 2002

Group 1652

DEC 22 2003

PATENT & TRADEMARK OFFICE

r.r.	38	Schenkman et al., "A proteolytic fragment of <i>Trypanosoma cruzi</i> trans-sialidase lacking the carboxy-terminal domain is active, monomeric, and generates antibodies that inhibit enzymatic activity" <u>J. Biol. Chem.</u> 269:7970-7975 (1994).
r.r.	39	<i>Trypanosoma cruzi</i> trans-sialidase homologue, Accession No. AAC98544, GI:624626, 736 aa, Briones et al., (1993).
r.r.	40	Scudder et al., "Enzymatic characterization of beta-D-galactoside alpha 2,3-trans-sialidase from <i>Trypanosome cruzi</i> ," <u>J. Biol. Chem.</u> 268(13):9886-9891 (1993).
r.r.	41	<i>Trypanosoma cruzi</i> trans-sialidase-neuraminidase, Accession No. S28409, GI:323067, 200 aa, Uemura et al., (1992).
—	42	Simecka et al., "Mycoplasmas Diseases of Animals," in Maniloff et al. Eds., <u>Mycoplasmas. Molecular Biology and Pathogenesis</u>, American Society for Microbiology, pp. 391-415 (Washington, 1992).
r.r.	43	Parodi et al., "Identification of the gene(s) coding for the trans-sialidase of <i>Trypanosome cruzi</i> " <u>EMBO J.</u> 11:1705-1710 (1992).
r.r.	44	Schenkman et al., " <i>Trypanosoma cruzi</i> trans-sialidase and neuraminidase activities can be mediated by the same enzymes," <u>J Exp Med</u> 175(2):567-575 (1992).
r.r.	45	Uemura et al., "Only some members of a gene family in <i>Trypanosome cruzi</i> encode proteins that express both trans-sialidase and neuraminidase activities," <u>EMBO J.</u> 11:3837-3844 (1992).
r.r.	46	Vandekerckhove et al., "Substrate specificity of the <i>Trypanosoma cruzi</i> trans-sialidase," <u>Glycobiology</u> 2(6):541-548, (1992).
r.r.	47	Pereira et al., "The <i>Trypanosoma cruzi</i> neuraminidase contains sequences similar to bacterial neuraminidases, YWTD repeats of the low density lipoprotein receptor, and Type III modules of fibronectin," <u>J. Ex. Med.</u> 174:179-191 (1991).
r.r.	48	Pollevick et al., "The complete sequence of a shed acute-phase antigen of <i>Trypanosoma cruzi</i> ," <u>Mol. Biochem. Parasitol.</u> 47:247-250 (1991).

NY02:450221.1

5

Examiner

Refrasky

Date Considered

1/11/05

* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

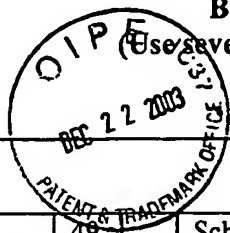
INFORMATION DISCLOSURE STATEMENT
BY APPLICANT

(Use several sheets if necessary)

Applicant
Higuchi et al.

Filing Date
March 1, 2002

Group 1652



R.R.	49	Schenkman et al., "Attachment of <i>Trypanosoma cruzi</i> trypomastigotes to receptors at restricted cell surface domains," <u>Exp. Parasitol.</u> 72:76-86 (1991).
R.R.	50	Roberts et al., "Sialic Acid-dependent Adhesion of <i>Mycoplasma pneumoniae</i> to Purified Glycoproteins," <u>Journal of Biological Chemistry</u> , 264:9289-9293 (1989).
R.R.	51	Chen et al., "Carditis associated with <i>Mycoplasma pneumoniae</i> infection," <u>Am. J. Dis. Child.</u> 140:471-472 (1986).
R.R.	52	Pereira, "A developmentally regulated neuraminidase activity in <i>Trypanosoma cruzi</i> ," <u>Science</u> 219:1444-1446 (1983)
R.R.	53	Kahane, "Purification of attachment moiety: a review," <u>Yale J. Biol. Med.</u> 53:665-669 (1983).
R.R.	54	Baseman et al., "Sialic acid residues mediate <i>Mycoplasma pneumoniae</i> attachment to human and sheep erythrocytes," <u>Infect. Immun.</u> 38(1):389-391 (1982).
R.R.	55	Bredt et al., "Adherence of mycoplasmas: phenomena and possible role in the pathogenesis of disease," <u>Infection</u> 10(3):199-201 (1982).
R.R.	56	Chandler et al., " <i>Mycoplasma pneumoniae</i> attachment: competitive inhibition by mycoplasmal binding component and by sialic acid-containing glycoconjugates," <u>Infect. Immun.</u> 38(2):598-603 (1982).
R.R.	57	Krause et al., "Identification of <i>Mycoplasma pneumoniae</i> proteins associated with hemadsorption and virulence," <u>Infect. Immun.</u> 35:809-817 (1982).
R.R.	58	Hansen et al., "Characterization of hemadsorption-negative mutants of <i>Mycoplasma pneumoniae</i> ," <u>Infect. Immun.</u> 32:127-136 (1981).
R.R.	59	Kahane et al., "Attachment of mycoplasmas to erythrocytes: a model to study mycoplasma attachment to the epithelium of the host respiratory tract," <u>Isr. J. Med. Sci.</u> 17:589-592 (1981).

NY02:450221.1

6

Examiner

R. P. Roach

Date Considered

1/11/05

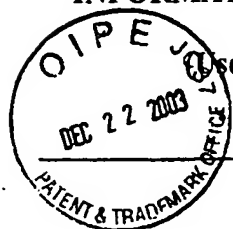
* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant
Higuchi et al.

(Use several sheets if necessary)

Filing Date
March 1, 2002

Group 1652

[illegible]

Examiner

Date Considered

4/11/05

* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.